



RU-C2 Remedial Action



RU-C2 Pre-Characterization PARCEL C

Hunters Point Shipyard
March 2012



Contract No. N62473-06-D-2206
Delivery Order No. 0093



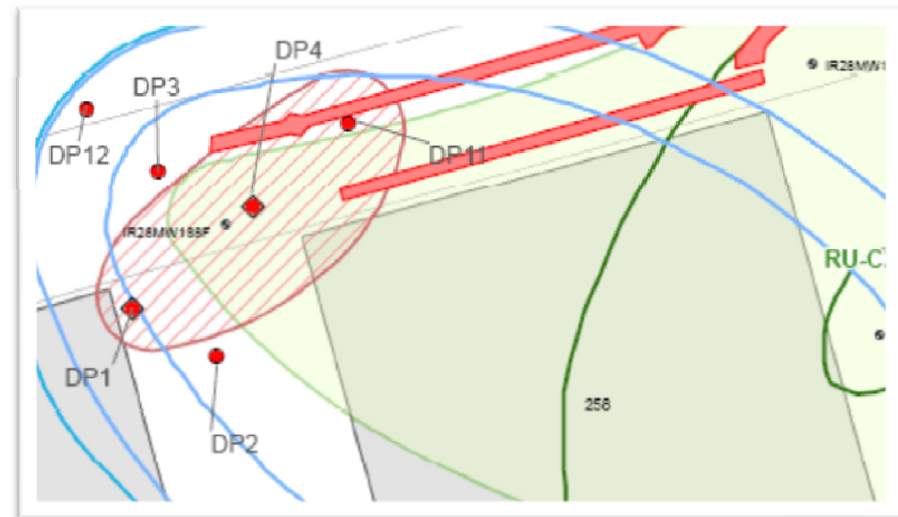
Pre-Design Investigation Activities-2012



Building 258 VOC Remediation Area

Building 258 VOC Remediation Area

- DP1 through DP4 encountered competent bedrock (serpentine) at 3 feet bgs
- Options
 - Air rotary rig required to penetrate bedrock
 - Access limited by open trenches
 - Soil vapor monitoring points





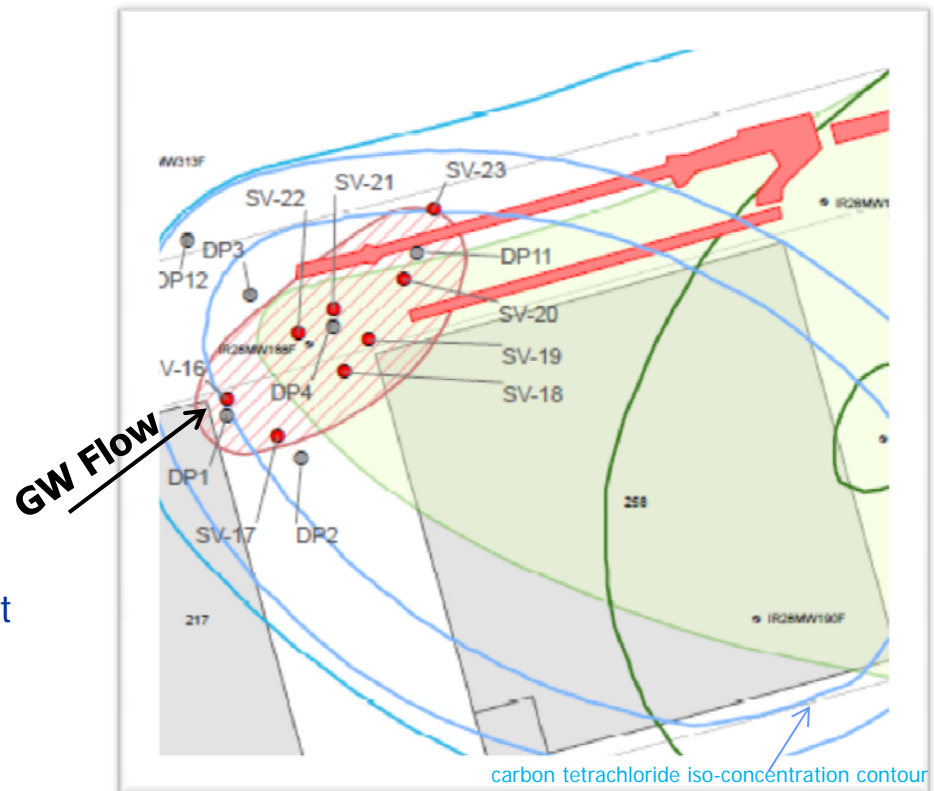
Pre-Design Investigation Activities-2012



Building 258 VOC Investigation Options

- Proposed Soil Vapor Sampling
 - 8 Locations at 3 feet bgs
- SV-16 and SV-17: Target upgradient portion of remediation area.
- SV-18, SV-19: Target areas nearest to Building 258 and potential release areas.
- SV-21, SV-22: Target locations proposed nearest to existing monitoring well IR28MW188F.
- SV-20, SV-23: Target downgradient portions of the remediation area outlined in the ROD. Locations are nearest to open utility excavation pits.

Building 258 VOC Remediation Area





Pre-Design Investigation Activities-2012

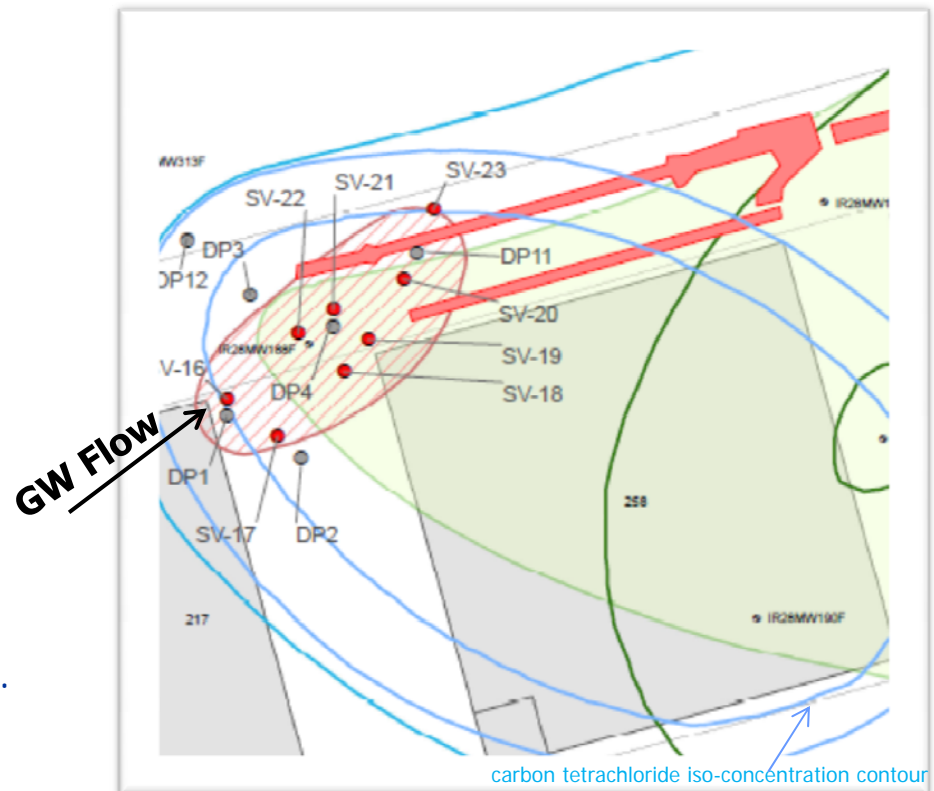


Building 258 VOC Investigation

Options

- Scenario-1
Results: All detections below SGALs.
 - Data to RD contractor for no action, MNA, or ARIC.
- Scenario-2
Results: Select locations slightly above SGALs.
 - Data to RD contractor for possible localized hydropunch investigation with drill rig in areas with the highest detections in soil vapor.
 - MNA, localized bio injections, or ARIC.

Building 258 VOC Remediation Area





Pre-Design Investigation Activities-2012



- Scenario-3

Results: Select locations significantly above SGALs

- Data to RD contractor for possible hydropunch investigation.
- Localized bioremediation injections in areas with the highest detections in soil vapor.
- Larger scale bioremediation across entire area, MNA, or ARIC.